# CAM-5100/5120

## MPEG-4 Real-time Network Streaming IP Camera with Day & Night option

* The lens is not included.

- 1/3” SONY Super HAD / Exview HAD with 470K/410K pixels
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Super Gain Control, IR cut-filter switching mechanism (CAM-5120)
- Day and night function (CAM-5120)
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming

### MPEG-4 compression gives a high resolution image quality

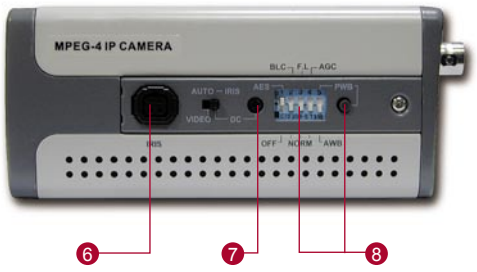
The CAM-5100 MPEG-4 IP Camera adopts MPEG-4 Advanced Simple Profile (ASP) compliant compression technology to perform full D1 (4 CIF) resolution. It utilizes the premium 1/3” SONY color CCD sensor, and has horizontal resolution of 480 TV lines. The real-time image transmission is 30 fps (720 x 480 pixels, NTSC) and 25 fps (720 x 576 pixels, PAL).

### Advanced network technologies enable real-time surveillance

With the LAN and WAN ports built-in, the CAM-5100 applies QoS (Quality of Service, IEEE 802.1Q) technology to fully utilize the network bandwidth. CAM-5100 supports automatic (or manual) frame rate control for concurrent video streams accessing at different network bandwidth.
With advanced MPEG-4 ASP compliant video compression and QoS-enabled streaming, the CAM-5100 delivers smooth analog-video like transmission over LAN or WAN to reach true remote video surveillance goal. The CAM-5100 not only supports DDNS, but also has a built-in web server to enable authorized users to do live- viewing and adjust the camera setting via remote web browsers.

### Sophisticate Design

In addition to support of the DC and a video auto iris lens, the CAM-5100 also has DIP-switch controlled functions including backlight compensation, auto white balance, auto gain control and flickerless for different application conditions. With Super Gain Control mechanism, it will switch to color and monochrome picture automatically (CAM-5120).




1. Composite video output
2. Digital input/output
3. DC 12 V power input
4. WAN port
5. LAN port
6. Auto Iris lens control port
7. DC level
8. Function DIP switch



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# CAM-5100/5120

## PRODUCT SPECIFICATION

| | | CAM-5100 | CAM-5120 |
|---|---|---|---|
| Image | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY Exview HAD CCD |
| | Size | 1/3 inch | |
| | Effective Pixels (HxV) | 811 x 508 (NTSC); 795 x 596 (PAL) | |
| | Horizontal Resolution | 480 TVL / 380 TVL | 480 TVL |
| Min. scene Illumination | Color | 0.15 Lux at F1.2 (30 IRE, SAGC) (CAM-5100H)<br>0.15 Lux at F1.2 (30 IRE, AGC) (CAM-5100M/S) | Color mode automatically switched to B/W mode under 4 Lux |
| | B/W | N/A | 0.05 Lux at F1.2 (30 IRE, SAGC) |
| | IR Sensitivity | N/A | from 700 nm to 1100 nm |
| Lens | Lens Mount | C / CS (with adaptor) | |
| Synchronization | Sync. System | Internal | |
| Day/Night Functions | Day/Night Switching | N/A | Mechanical IR cut filter: auto; color/monochrome |
| Functions | Motion Detection | Yes (3 windows) | |
| | Electronic shutter | AES On: 1/60 ~ 1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC); AES On: 1/50 ~ 1/100,000 sec. (PAL); AES Off: 1/50 sec. (PAL) | |
| | BLC | On / Off (switchable) | |
| | AGC | On / Off (switchable) | On / Off (switchable) Turning off AGC will disable D&N function |
| | White Balance | AWB / PWB (switchable) | |
| | Flickerless | On / Off (switchable) | |
| | Auto iris control | Video / DC (switchable) | |
| S/N Ratio | S/N Ratio | Better than 50 dB (AGC off) | |
| Video (Compression) | Compression | MPEG-4 ASP Compliant | |
| | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTSC, 352x288 in PAL); QCIF (160x112 in NTSC, 176x144 in PAL) | |
| | Bit Rate | 28 K ~ 3 M bps | |
| | Image Frame Rate | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | |
| Alarm | Input | 1, TTL, terminal block | |
| | Output | 1, TTL, terminal block | |
| Remote Control | Serial Port | RS-485: half duplex, RJ-45 | |
| External I/O | Reset Button | Factory default | |
| | LED | Power status | |
| Network | LAN Port | Ethernet(10/100 Base-T), RJ-45 connector | |
| | WAN Port | Ethernet(10/100 Base-T), RJ-45 connector | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE | |
| Software | Web Browser | Microsoft Internet Explorer 6.0 or above | |
| | SDK | ActiveX control, C SDK | |
| | Security | Password Protection : configured by the administrator | |
| Operating | Temperature | 5°C~50°C (40°F~122°F) | |
| Power | Power Requirement | DC 12 V ±10% | |
| | Power Consumption | 12 W | |
| Physical | Dimensions (WxHxD) | 63 mm x 52 mm x 120 mm (2.48" x 2.05" x 4.76") | |
| | Weight | 450 g (0.99 lb) | |

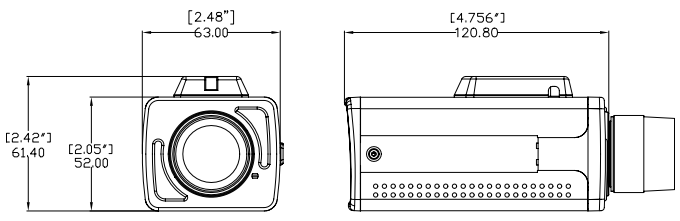
## ORDERING INFORMATION

| Part Number | Full D1 | CIF | NTSC | PAL | 480 TVL | 380 TVL | DC 12V | D & N |
|---|---|---|---|---|---|---|---|---|
| CAM-5100HN | V | | V | | V | | V | |
| CAM-5100HP | V | | | V | V | | V | |
| CAM-5100MN | V | | V | | | V | V | |
| CAM-5100MP | V | | | V | | V | V | |
| CAM-5100SN | | V | V | | | V | V | |
| CAM-5100SP | | V | | V | | V | V | |
| CAM-5120HN | V | | V | | V | | V | V |
| CAM-5120HP | V | | | V | V | | V | V |

## ACCESSORY OPTIONS

- Lens, f3.0~8mm F1.0, CS mount, Format 1/3" for CAM-5100
  0690-00002-000
- Lens, f5.0~55mm F1.4, CS mount, Format 1/3" for CAM-5100
  0690-00004-000
- Lens, f3.0~8.5mm, F1.0, CS mount, Format 1/3", for CAM-5120
  0690-00012-000
- Lens, f7.5~50mm, F1.3, CS mount, Format 1/3" for CAM-5120
  0690-00013-000

## DIMENSION DIAGRAM




Unit: mm [inch]

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